## IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. §1.121.

- 1. (original) An elevationally focused ultrasonic probe comprising an array of MUT cells.
- 2. (original) The probe as recited in claim 1, further comprising a curved lens adhered to said array of MUT cells, and a planar substrate, said MUT cells being built on said substrate.
- 3. (original) The probe as recited in claim 2, further comprising a layer of adhesive material between said lens and said array.
- 4. (original) The probe as recited in claim 3, further comprising a barrier layer disposed between said layer of adhesive material and said array of MUT cells, said barrier layer being made of a material that prevents chemical diffusion from said lens to said MUT cells.
- 5. (original) The probe as recited in claim 1, further comprising a curved substrate, said MUT cells being built on said substrate, and a layer of protective material covering said array of MUT cells.
- 6. (original) The probe as recited in claim 1, wherein said array comprises a first multiplicity of MUT cells hard-wired together and a second multiplicity of MUT cells hard-wired together.

- 7. (original) The probe as recited in claim 6, wherein said MUT cells of said first Multiplicity are arranged side by side and cover a generally rectangular area, the length of said rectangle being aligned with an elevation direction, said lens being curbed in said elevation direction.
- 8. (original) The probe as recited in claim 1, wherein said lens is cylindrical, multifocal or elliptical.
- 9. (original) The probe as recited in claim 2, further comprising adhesion promoting material applied on a front face of said array or on a rear face of said lens or both.
- 10. (original) The probe as recited in claim 5, further comprising adhesion promoting material applied on a front face of said array or on a surface of said protective layer that faces said array.
- 11. (original) The probe as recited in claim 2, wherein said lens is made of a polymeric material.
- 12. (original) The probe as recited in claim 11, wherein said lens is made of silicone rubber and said adhesive material is made of room-temperature vulcanizing silicone rubber.
- 13. (original) The probe as recited in claim 9, wherein said adhesion-promoting material is a silicate.
- 14. (original) The probe as recited in claim 9, wherein said adhesion-promoting material is an organometallic.

- 15. (original) The probe as recited in claim 9, wherein said adhesion-promoting material is a reactive organosilane.
- 16. (original) The probe as recited in claim 1, wherein each of said MUT cells is a capacitive MUT cell.
- 17. (original) The probe as recited in claim 1, wherein each of said MUT cells is a piezoelectric MUT cell.
  - 18. (original) The probe as recited in claim 1, further comprising: a layer of CMOS electronics below said array of MUT cells; and a silicon substrate below said layer of CMOS electronics.
  - 19. (original) An ultrasonic probe comprising:

a curved substrate having a profile that is substantially constant in an azimuthal direction;

an array of MUT cells built on said curved substrate and facing toward a line of focus, said MUT cells being disposed on a concave side of said curved substrate; and a layer or protective material applied on the face of sadi array of MUT cells, said layer having a substantially constant thickness or has a flat top surface and a bottom

surface that follows the curvature of the substrate, if the speed of sound in the protective material is generally equal to the speed of sound in water or tissue.

- 20. (original) The probe as recited in claim 19, wherein each of said MUT cells is a capacitive MUT cell.
- 21. (original) The probe as recited in claim 19, wherein each of said MUT cells is a piezoelectric MUT cell.

## 22.-38. (canceled).

- 39. (original) An integrated device comprising:
- a curved lens;
- a first multiplicity of MUT cells hard-wired together and disposed underneath said lens;
- a second multiplicity of MUT cells hard-wired together and disposed underneath said lens;

CMOS electronics disposed underneath said first and second multiplicities of MUT cells; and

A silicon substrate disposed underneath said CMOS electronics.

- 40. (original) The device as recited in claim 39, wherein each of said MUT cells is a capacitive MUT cell.
- 41. (original) The device as recited in claim 39, wherein each of said MUT cells is a piezoelectric MUT cell.